

INDEX OF SUBJECTS

Original Articles

A

- Abscess(es), brain, *Cladosporium trichoides* variant causing, 747
- Absorption technic(s)
to eliminate cross-reactivity of commercial anti-CEA sera, 25
for HLA typing of cultured amniotic fluid cells, 186
- Accuracy, CAP data compilation (book review), 139
- Achalasia, ultrastructure of esophageal muscle in, 312
- Acid phosphatase
activity in Reed-Sternberg cells, 553
cutaneous lymphoma classification using, 157
prostatic, monoclonal antibody-based immunoradiometric assay for, 114
- Acquired immune deficiency syndrome
disseminated *Mycobacterium avium-intracellulare* infection in, histologic and immunologic study, 247
lymphadenopathy in homosexual men and, 559
- Adenocarcinoma, endocervical, immunohistochemical localization of carcinoembryonic antigen in, 105
- Adenoma(s)
thyroid, ultrastructural morphometry, 166
villous, of urinary bladder, with deletion of terminal tissue isoenzyme, 728
- Agarose electrophoresis. See under Electrophoresis
- Age, reference intervals and, for chemistry and hematology tests in adult males, 574
- Agranulocytosis, autoimmune, with absence of myeloid precursors, R binder for cobalamin in, 611
- Alanine aminotransferase, elevation during marathon training, 716
- Alcoholic hepatic disease, nature and origin of proliferated bile ductules in, 326
- Alkaline phosphatase, normal, in persistent active hepatic necrosis, 505
- Alpha-1-antitrypsin deficiency, hepatocyte inclusions and liver disease in, 697
- Alternative complement pathway. See under Complement
- Aluminum, glomerular basement membrane dense deposits containing, energy dispersive x-ray analysis for identification (letter), 267
- Amniotic fluid
HLA typing of cultured cells from, 186
phospholipid quantification for predicting respiratory distress in newborn, 52
- Ampicillin, *Hemophilus influenzae* resistance to, 73
- Amylase, in extra-ovarian serous carcinoma, 633
- Analysis(-es), chemical. See particular analytes; Reference values
- Anemia(s)
See also Thalassemia
autoimmune hemolytic, enzyme-linked immunosorbent assay for red blood cell antibody detection in, 182
megaloblastic, platelet size in (letters), 274, 275
sickle cell. See Sickle cell syndromes
- Anion gap, quality control of electrolyte analyzers using, 688
- Anisocytosis, in melanoma (letter), 268
- Antibody(-ies)
antikeratin, keratin demonstration in neoplasms using, 458
Candida, solid-phase radioimmunoassay for monitoring kinetics of, in candidiasis diagnosis, 200
erythrocyte, enzyme-linked immunosorbent assay for detection of, in autoimmune hemolytic anemia, 182
monoclonal
air-dried imprint preparations from lymphoid tissue for immunoperoxidase technic using, 438
to common surface antigen of ovarian tumors, 98
immunoradiometric assay for prostatic acid phosphatase using, 114
lymphoblastic lymphoma with phenotype of common acute lymphoblastic leukemia identified with, 387
phenotype of hairy cells in leukemic reticuloendotheliosis studied with, 431
OC125, immunopathologic characterization of, 98
rubella, enzyme-linked immunosorbent assay for screening and quantitation, 206
- Anticoagulant(s). See particular anticoagulants
- Antigen(s)
blood group
loss in condyloma acuminatum of uterine cervix, 178
loss in villous adenoma of urinary bladder, 728
Rh mosaicism and aberrant MNSs expression in chronic myelogenous leukemia, 397
carcinoembryonic
immunoabsorption technic for eliminating cross-reactivity of commercial anti-CEA sera, 25
immunocytochemical localization in cervical neoplasia, 414
immunohistochemical localization in microglandular hyperplasia and adenocarcinoma of endocervix, 105
factor VIII-related
in lymphatic endothelium in lymphangiomatosis, 625
Ulex europaeus I lectin compared to, as endothelial tumor marker, 32
hepatitis B surface, staining method (letter), 648
- HLA
typing, of cultured amniotic fluid cells, 186
typing, interlaboratory reproducibility, 569
la-like, in histiocytosis-X cells, 294
T4, in histiocytosis-X cells, 294
T6, in histiocytosis-X cells, 294
tumor-associated, in ovarian tumors, monoclonal antibody reacting with, 98
- Antiglobulin test(s), direct and enzyme-linked compared, for red blood cell antibody detection in autoimmune hemolytic anemia, 182
- Antimicrobial removal device, microbiological and clinical evaluation (letter), 274
- API-20E®
comparative evaluation, 367
same-day modification, Enterobacteriaceae identification with, comparative evaluation, 683
- A.P.U.D. concept
mucus-producing medullary thyroid tumor casts doubt on (letters), 521, 522
neuron-specific enolase in neuroendocrine tumors and, 703
- Aspartate aminotransferase (SGOT), normal, in persistent active hepatic necrosis, 505
- Aspergillus, autofluorescence of, 587
- Aspiration biopsy. See under Biopsy(-ies)
- Assay(s)
See also Radioimmunoassay(s); particular substances
colorimetric, for urine specific gravity, evaluation, 722
enzyme-linked immunosorbent (ELISA)
for erythrocyte antibodies, in autoimmune hemolytic anemia, 182
for rubella antibody, evaluation, 206
immunoradiometric, monoclonal antibody-based, for prostatic acid phosphatase, 114
Autofluorescence, fungal, with ultraviolet illumination, diagnostic utility, 231, 587

Autoimaging, nidus identification with, in osteoid osteoma, 223
 Autoimmune agranulocytosis. See under Agranulocytosis
 Avidin-biotin complex method, terminal deoxynucleotidyl transferase activity detection by, in bone marrow, 277

B

Bacteremia, *Staphylococcus aureus*, hospital-wide outbreak, 598
 Bacterium(-a)
 See also individual families, genera and species
 defective clearance of, in xanthogranulomatous inflammations, 637
 identification
 methods comparison, 367
 rapid, methods comparison, 683
 Bacteroides, capsule demonstration by light microscopy and ultrastructural cytochemistry, 591
 Basement membrane, detection of, in soft tissue tumor diagnosis, 306
 B-cell lymphoma. See under Lymphoma(s)
 Beta-lactamase, production of, by *Hemophilus influenzae* biotypes, 73
 Bile ductule(s), proliferated, in alcoholic hepatic disease, 326
 Bilirubin, serum, normal, in persistent active hepatic necrosis, 505
 Biochemical profile(s). See under Profile(s)
 Biopsy(-ies)
 aspiration
 of kidney, immunofluorescence microscopy of paraffin-embedded specimens, 489
 of marrow, with clot sections, for histoplasmosis diagnosis in marrow transplant patient, 509
 melanoma cytology (letter), 268
 vitreous, cryptococcal endophthalmitis diagnosed by, 382
 gastric, in cytomegalic inclusion disease diagnosis, 493
 marrow
 with clot sections, for histoplasmosis diagnosis in marrow transplant patient, 509
 in hairy cell leukemia diagnosis and staging, 531
 renal
 direct immunofluorescence with liquid fixative, 108
 fine-needle aspiration, immunofluorescence microscopy of paraffin-embedded specimens, 489
 Bladder, villous adenoma of, with deletion of terminal tissue isoenzyme, 728
 Blastomyces, autofluorescence of, 587
 Blastomyces dermatitidis, commercial exoantigen test system for identification evaluated, 379
 Blastomycosis, primary cutaneous (inoculation), 253
 Blood. See Smear(s); Transfusion(s); particular constituents and determinations; and under Culture(s); Specimen(s)
 Blood group antigen(s). See under Antigen(s)
 B lymphocyte(s). See under Lymphocyte(s)
 Bone(s)
 lytic lesions of, in chronic lymphocytic leukemia, 616
 tumors, benign, with fibrous dysplasia, 630
 Bone marrow. See Marrow
 Brain abscess(es), *Cladosporium trichoides* variant causing, 747
 Breast carcinoma
 estrogen receptor detection in, histochemical fluorescent technique (letters), 145, 146
 glycogen-rich clear cell, light and ultrastructural study, 243
 BTG. See β -Thromboglobulin, under T.
 Budgeting, capital, mathematical model for simultaneous financial evaluation of alternatives, 87
 Buffy-coat smear. See under Smear(s)

C

Calcific embolus. See under Embolus(-i)
 Calculus(-i), staghorn, adenosquamous carcinoma of renal pelvis with, 731

Cancer. See Carcinoma(-s); Metastasis(-es); Tumor(s); particular sites and types
 Candida, autofluorescence of, 587
 Candidiasis, diagnostic value of monitoring kinetics of antibody response in, 200
 Capillariasis, hepatic, clinicopathologic features, 127
 Capital budgeting. See under Budgeting
 Capsule(s), Bacteroides, demonstration of, by light microscopy and ultrastructural cytochemistry, 591
 Carcinoembryonic antigen. See under Antigen(s)
 Carcinoma(s)
 See also particular types
 adenosquamous, of renal pelvis, with staghorn calculi, 731
 breast. See Breast carcinoma
 cervical, immunocytochemical localization of carcinoembryonic antigen, α -fetoprotein, and human chorionic gonadotropin in, 414
 hepatocellular, hyaline globules and intracellular lumina in, 392
 islet cell, with clear cells, 512
 neuroendocrine, primary, of skin, clinical, histologic and ultrastructural study, 6
 oat cell, acute leukemia after successful therapy for, 122
 papillary serous, of retroperitoneum, 633
 renal cell
 in chronic renal failure patients, 238
 morphologic differentiation from renal oncocytoma, 312
 thyroid. See under Thyroid
 trabecular, of skin. See Carcinoma(s), neuroendocrine
 urothelial, in long-term dialysis patients, 238
 Carotid body, paraganglioma of, in multiple endocrine neoplasia (letters), 520, 520
 C cell(s), thyroid, neuroectodermal origin supported (letters), 521, 522
 CEA. See Antigen(s), carcinoembryonic
 Cell(s)
 See also Cyto- entries; particular cells, e.g. C cell(s); Lymphocyte(s)
 clear, in islet cell tumor, 512
 goblet, in medullary thyroid carcinoma (letters), 521, 522
 hairy
 biochemical, morphologic, immunocytochemical and functional characteristics, 733
 phenotype of, in leukemic reticuloendotheliosis, 431
 malignant, normal and hyperplastic differentiated from, by lectin binding (letter), 143
 Centrifugation, microhematocrit, for autologous red blood cell recovery after transfusion, simplified method, 364
 Cerebrospinal fluid
 alpha-hemolytic streptococci in, clinical significance, 195
 oligoclonal banding in
 with polyacrylamide gel electrophoresis, 112
 radiocontrast dyes' effects on, 607
 Cervical intraepithelial neoplasia, papillomavirus-associated lesions and (notice), 523
 Cervicitis, chlamydial, detection of, by Pap smear, 421
 Cervix
 See also Endocervix
 neoplasia
 See also Cervical intraepithelial neoplasia
 immunocytochemical localization of carcinoembryonic antigen, α -fetoprotein, and human chorionic gonadotropin in, 414
 CFU-E. See Erythroid colony(-ies)
 Chemistry, reference values in. See Reference values
 Chlamydia trachomatis, cervicitis due to, Pap smear for detection of, 421
 Chloroacetate esterase, staining for, for Auer rod demonstration in microgranular acute promyelocytic leukemia, 621
 Cholangiole(s). See Bile ductule(s)

- Cholesterol**
distribution in lipoproteins, vitamin E effect on, 604, 714
reference values based on health (editorial), 402
- Chromosome analysis, high-resolution, simple, rapid technic for lymphocytes, 481**
- Cirrhosis**
alcoholic. See Alcoholic hepatic disease
PAS-positive, diastase-resistant globules in hepatocytes and, 697
Cladosporium trichoides var. *chlamydosporum*, brain abscess due to, 747
- Clinical usefulness. See Medical utility**
- Clostridium difficile*, toxin detection in stool filtrates, counterimmunoelectrophoresis for, 370, 375**
- CNAP (cytotoxicity negative absorption positive) phenomenon, in HLA typing of cultured amniotic fluid cells, 186**
- Coagulation test(s), for lupus inhibitor identification, 678**
- Cobalamin. See Vitamin B₁₂**
- Coccidioides, autofluorescence of, 587**
- Coccidioides immitis*, commercial exoantigen test system for identification evaluated, 379**
- Colitis, pseudomembranous. See Pseudomembranous colitis**
- College of American Pathologists, clinical laboratory improvement programs, data compilation (book review), 139**
- Colony-forming unit-erythroid. See Erythroid colony(-ies)**
- Colorimetric assays. See under Assay(s)**
- Complement**
alternative pathway
depletion with other values near normal, 65
kinetics studied with electron spin resonance spectroscopy, 674
optimal reaction conditions for assay of, 65
Clq, nephelometric assay of immune complexes using, 451
- Computer(s)**
See also Image analysis; Microcomputer(s)
interpretive reporting system for creatine kinase and lactate dehydrogenase isoenzyme determinations, 217
microfilm system for surgical pathology records, 467
multifunction network for word processing, data base management and general purpose computing, 472
- Concanavalin A, binding of, to plasma membrane (letter), 143**
- Condyloma acuminatum, of uterine cervix, isoantigen loss in, 178**
- Condyloma virus. See Papillomavirus, human**
- Contact activation factor(s), deficiencies, skin window as monitor of leukocytic functions in, 405**
- Contaminant(s), in cerebrospinal fluid specimens, alpha-hemolytic streptococci, 195**
- Control. See Reference material(s)**
- Cost control. See Budgeting**
- Coulter Counter® Model S, osmotic errors in mean corpuscular volume on (letters), 143, 755**
- Coulter Counter® Model S-Plus, osmotic errors in mean corpuscular volume on (letters), 143, 755**
- Counter(s)**
See also particular models
platelet, mean platelet volumes on reference controls (letters), 649, 651
- Counterimmunoelectrophoresis, *Clostridium difficile* toxin detection with, in stool filtrates, 370, 375**
- Creatine kinase**
isoenzyme determinations, computer-assisted interpretive reporting system, 217
- MB**
ectopic production of, in metastatic cancer, 255
elevation, during marathon training, 716
reference ranges for, racial and gender influences on, 582
- Critical path, in network planning, 353**
- Critical Path Method (CPM), network planning using, in laboratory research and development, 353**
- Cross-reactivity, of commercial anti-CEA sera, immunoabsorption technic for eliminating, 25**
- Cryoglobulinemia, mixed IgG-IgM, renal glomerular lesions in, 147**
- Cryptococcus, autofluorescence of, 587**
- Cryptococcus neoformans*, membrane filtration and mucicarmine histochemistry for identification of, 382**
- Culture(s)**
blood, antimicrobial removal device processing of, evaluation (letter), 274
McCoy cell, Pap smear compared to, for chlamydial cervicitis detection, 421
- Cyst(s), renal, acquired, in chronic renal failure patients, 238**
- Cystitis glandularis, villous adenoma with deletion of terminal tissue isoantigen associated with, 728**
- Cytochemistry**
See also Immunocytochemistry; Stains and staining; particular procedures
of granular acute lymphoblastic leukemia, 426
of Reed-Sternberg cells in lymph node imprints, 553
of secondary acute nonlymphocytic leukemia, 525
ultrastructural, *Bacteroides* capsule demonstration with, 591
- Cytogenetics, of granular acute lymphoblastic leukemia, 426**
- Cytology**
See also Cell(s); particular cells; Ultrastructure
cervical, culture compared to, for chlamydial cervicitis detection, 421
membrane filtration, *Cryptococcus neoformans* identification using, 382
- Cytomegalic inclusion disease, gastric, histologic examination of endoscopic biopsy in diagnosis, 493**
- Cytometry, flow, DNA analysis of medullary thyroid carcinoma, 172**
- Cytotoxicity technic(s), for HLA typing of cultured amniotic fluid cells, 186**
- Cytotoxin assay, counterimmunoelectrophoresis compared to, for *Clostridium difficile* toxin detection in stool filtrates, 370, 375**

D

- Data processing. See Computer(s)**
- Data reduction technic(s), proficiency testing results affected by (letters), 265, 267**
- Desmoplastic fibroma, with fibrous dysplasia, 630**
- Diagnosis**
See also particular diseases and procedures
lectin binding in differentiation of malignant from normal and hyperplastic epidermal tissues (letter), 143
- Dialysis. See Hemodialysis**
- Diarrhea, antibiotic-induced, counterimmunoelectrophoresis for *Clostridium difficile* toxin detection in stool filtrates in, 370, 375**
- Differential leukocyte count. See under Leukocyte(s), count**
- N-(7-Dimethylamino-4-methylcoumarinyl)-maleimide, disulfide bond detection with, in subepidermal hyaline bodies for differentiation of lichen planus and lupus erythematosus, 486**
- Ductular transformation, of hepatic cords, in alcoholic hepatic disease, 326**
- Dye(s), radiocontrast, effects on oligoclonal banding in cerebrospinal fluid, 607**

E

- Education**
additional clinical training needed? (letters), 270, 270
in laboratory testing
(editorial), 260
method using student's own laboratory results, 211
- Electrolyte(s), analysis, quality control using anion gap, 688**
- Electron-dense deposit(s), in renal glomerulus, in cryoglobulinemia, 147**

Electron microscopy

See also Ultrastructure

hyaline globules and intracellular lumina in hepatocellular carcinoma, 392

immunoperoxidase study of Russell bodies with (letters), 262, 264, 265

morphometry of thyroid tumors using, 166

Electron spin resonance spectroscopy. See under Spectroscopy

Electrophoresis

See also Counterimmunoelectrophoresis

agarose, for oligoclonal bands in cerebrospinal fluid, radiocontrast dyes' effects on, 607

polyacrylamide gel, for oligoclonal bands in cerebrospinal fluid, 112

serum protein, in plasma cell dyscrasia monitoring, interassay variability in, 227

Embolus(-i), calcific, in lungs of bone marrow transplant patients, 360

Emphysema, PAS-positive, diastase-resistant globules in hepatocytes and, 697

Endocarditis, *Pseudomonas alcaligenes*, 245

Endocervix

adenocarcinoma, immunohistochemical localization of carcinoembryonic antigen in, 105

microglandular hyperplasia of, immunohistochemical localization of carcinoembryonic antigen in, 105

Endophthalmitis, cryptococcal, diagnosis by vitreous aspiration membrane filtration cytology, 382

Endothelium

lymphatic, factor VIII-related antigen in, in lymphangiomatosis, 625

Ulex europaeus I lectin as marker for, 32

Enolase, neuron-specific, in neuroendocrine tumor identification, 703

Entamoeba polecki, in Indochinese refugees, 502

Enterobacteriaceae

See also particular species

same-day identification, automated and manual methods compared, 683

Enterotube II®, comparative evaluation, 367

Enzygnost™-Rubella, screening and quantitative testing with, evaluation, 206

Enzyme-linked immunosorbent assay. See under Assay(s)

Eosinophil(s)

humoral and cellular studies of, in reactive and myeloproliferative syndromes, 301

metabolism, immune complexes' effect on, 301

Erythrocyte(s)

antibodies. See under Antibody(-ies)

autologous, recovery from transfused patient, simplified method, 364

microcytic. See Microcytosis

morphology in sickle cell anemia

image processing analysis of, 667

painful crises and, 667

Erythroid colony(-ies), in peripheral blood, in polycythemia vera, 496

Escherichia coli, mucoid, in xanthogranulomatous pseudotumor of vagina, 637

Esophageal muscle, in achalasia and diffuse esophageal spasm, ultrastructural study, 312

Esophageal spasm, diffuse, ultrastructure of esophageal muscle in, 312

Esterase(s), nonspecific, cutaneous lymphoma classification using, 157

Estrogen receptor(s)

in breast cancer, histochemical fluorescent technic for demonstration of (letters), 145, 146

histochemical assay, estrogen-primed immature rat uterus as tissue control for, 484

Exoantigen test, commercial kits for fungal pathogen identification evaluated, 379

Eye(s), *Streptococcus equisimilis* (group C) infections of, 385

F

Factor VIII-related antigen. See under Antigen(s)

 α -Fetoprotein, immunocytochemical localization in cervical neoplasia, 414

Fibroma(s), desmoplastic. See Desmoplastic fibroma

Fibrosis, hepatic

in *Capillaria hepatica* infection, 127

PAS-positive, diastase-resistant globules in hepatocytes and, 697

Fibrous dysplasia, desmoplastic fibroma of bone arising in, 630

Filament(s), thick (myosin), in glomus tumor, 130

File systems. See Records

Finance. See Budgeting

Fixative(s), liquid, for direct immunofluorescence of renal biopsy, 108

Flow cytometry. See under Cytometry

Fluorescence

See also Autofluorescence; Immunofluorescence

malignant cells differentiated from normal and hyperplastic cells by (letter), 145

Fluorescent microscopy, fungus detection with, in tissue sections, 587

Folate, serum, data reduction technic effect on proficiency testing results (letters), 265, 267

Formalin, lectin binding affected by (letter), 143

Free erythrocyte protoporphyrin

methods comparison, 655

microcytic RBC disorder classification using, in adults, 661

normal values for adults, 655

Free thyroxine index, radioimmunoassay for free thyroxine compared to, 334

Fungus(-i)

See also particular genera

autofluorescence of, detection in tissue sections using, 231, 587

G

Gastrointestinal tract, cytomegalic inclusion disease of, histologic examination of endoscopic biopsy in diagnosis, 493

Gender, creatine kinase reference ranges and, 582

Gestation. See Pregnancy

Gilbert's syndrome, primary shunt hyperbilirubinemia with, 627

Globin synthesis, disorders of, free erythrocyte protoporphyrin test for identification of, in adults, 661

Glomerulonephritis, nonsystematic mesangiopathic, with "full house" immunofluorescence (letters), 273, 273

Glomerulus, aluminum-containing dense deposits in basement membrane, energy dispersive x-ray analysis for identification (letter), 267

Glomus tumor, thick (myosin) filaments in, 130

Glucose, blood levels, effect of, on mean corpuscular volume on electronic particle counters (letter), 143

Gonadotropin, human chorionic. See Human chorionic gonadotropin

Graft(s). See Marrow, transplantation

Granule(s), azurophilic, in lymphoblasts in acute lymphoblastic leukemia, 426

Granulocyte(s)

See also Eosinophil(s); Neutrophil(s)

sequence of functional differentiation of, 45

H

Haemophilus. See Hemophilus

Hairy cell(s). See under Cell(s)

Hairy cell leukemia. See under Leukemia(s)

Hayflick medium, modified New York City medium compared to, for *Mycoplasma pneumoniae* growth, 235

HDL-cholesterol. See Cholesterol, distribution in lipoproteins

Heavy chain disease, gamma, immunopathology of (letters), 520, 521

- Hemagglutination-inhibition, enzyme-linked immunosorbent assay compared to, for rubella antibody detection, 206
- Hematofluorometer, evaluation, 665
- Hematogone(s), terminal deoxynucleotidyl transferase-positive cells identified as, 277
- Hematologic profile(s). See under Profile(s)
- Hematology, reference values in. See Reference values
- Hematopoiesis, intravascular, in chorionic villi, 225
- Heme synthesis, disorders of, free erythrocyte protoporphyrin test for identification of, in adults, 661
- Hemodialysis, acquired renal cysts and multiple renal cell and urothelial tumors in patients on, 238
- Hemophilus influenzae*, biotypes, relationship to site of isolation, serotype and antibiotic susceptibility, 73
- Heparin, effect on alternative complement pathway assay, 65
- Hepatitis, antigens. See under Antigen(s)
- Hepatocyte(s), PAS-positive, diastase-resistant globules in, liver disease and, 697
- Histiocytic lymphoma. See under Lymphoma(s)
- Histiocytosis X, in situ characterization of cutaneous infiltrates with monoclonal antibodies, 294
- Histiocytosis-X cell(s), marker for, 294
- Histochemical fluorescent technique, for estrogen receptors in breast carcinoma (letters), 145, 146
- Histoplasma, autofluorescence of, 587
- Histoplasma capsulatum*, commercial exoantigen test system for identification evaluated, 379
- Histoplasmosis
disseminated, after bone marrow transplantation, 509
pulmonary, thrombocytopenia and elevated platelet IgG with, 644
- HLA antigens. See under Antigen(s)
- Hodgkin's disease, cytochemistry of Reed-Sternberg cells in, 553
- Homosexual man(-en), lymphadenopathy in, morphologic, clinical and immunologic findings, 559
- Human chorionic gonadotropin, immunocytochemical study of cervical neoplasia for, 414
- Human papillomavirus. See Papillomavirus, human
- Hyaline body(-ies), subepidermal, detection of disulfide bonds in, for differentiation of lichen planus from lupus erythematosus, 486
- Hyaline globule(s), in hepatocellular carcinoma, morphogenesis of, 392
- Hybritech-TANDEM PAP assay, evaluation, 114
- Hyperbilirubinemia, primary shunt, with Gilbert's syndrome, 627
- Hypercalcemia, in chronic lymphocytic leukemia with lytic bone lesions and monoclonal protein, 616
- Hyperglycemia, spurious elevation of mean corpuscular volume by, on electronic particle counters (letters), 143
- Hyperinsulinism, islet-cell hyperplasia and pancreatic exocrine cell degranulation with, in adults, 14
- Hypermagnesemia, high prevalence of, in hospitalized patients, 348
- Hyperplasia
islet-cell, pancreatic exocrine cell degranulation with, in hypoglycemic adults, 14
lymph node, in homosexual men, clinical and immunologic correlations, 559
microglandular, of endocervix, immunohistochemical localization of carcinoembryonic antigen in, 105
- Hyperthyroidism, radioimmunoassay for free thyroxine in diagnosis of, 334
- Hypoglycemia, hyperinsulinemic, in adults, islet-cell hyperplasia and pancreatic exocrine cell degranulation with, 14
- Hypomagnesemia, high prevalence of, in hospitalized patients, 348
- Hyponatremia, mean corpuscular volume and, on electronic particle counters (letters), 143, 758
- Hypothyroidism, radioimmunoassay for free thyroxine in diagnosis of, 334
- Ia-like antigen. See under Antigen(s)
- IgA nephropathy. See under Nephropathy(-ies)
- IgG. See under Immunoglobulin(s)
- Image analysis, of red blood cells, in sickle cell anemia, 667
- Immune complex(es)
C1q precipitable, measurement of, by nephelometric system, 451
oxidative response of eosinophils and, 301
- Immunochemistry. See particular technics
- Immunocytochemistry
See also particular technics
carcinoembryonic antigen, α -fetoprotein, and human chorionic gonadotropin localization in cervical neoplasia, 414
- Immunodeficiency, cellular
See also Acquired immune deficiency syndrome
in homosexual men with lymphadenopathy, 559
- Immunofluorescence
"full house," in nonsystemic mesangiopathic glomerulonephritis (letters), 273, 273
keratin demonstration in neoplasms, using antikeratin antibodies, 458
liquid fixative for renal biopsy, 108
monoclonal antibody to common surface antigen of ovarian tumors studied with, 98
for terminal transferase detection (letters), 272, 272
- Immunofluorescent microscopy, of paraffin-embedded kidney specimens obtained by fine-needle aspiration biopsy, 489
- Immunoglobulin(s)
IgG
central nervous system synthesis of, in multiple sclerosis, immunonephelometric quantitation (letters), 144, 145
oligoclonal band demonstration in cerebrospinal fluid, with polyacrylamide gel electrophoresis, 112
platelet-associated, elevated, in pulmonary histoplasmosis with thrombocytopenia, 644
Russell bodies and (letters), 262, 264, 265
- Immunohistology, immunoabsorption technic for eliminating cross-reactivity of commercial anti-CEA sera, 25
- Immunonephelometry, central nervous system IgG synthesis quantitation with, in multiple sclerosis (letters), 144, 145
- Immunoperoxidase technic
alpha-1-antitrypsin globules in hepatocytes identified with, 697
avidin-biotin-peroxidase complex. See Avidin-biotin complex method
carcinoembryonic antigen localization using, in endocervical adenocarcinoma and microglandular hyperplasia, 105
clear cell islet cell tumor studied with, 512
factor VIII-related antigen demonstrated with, in lymphatic endothelium of lymphangiomas, 625
isoantigen status in condyloma acuminatum of uterine cervix studied with, 178
lymphoblastic lymphoma with phenotype of common acute lymphoblastic leukemia identified with, 387
using monoclonal antibodies, air-dried imprint preparations from lymphoid tissues for, 438
Russell bodies studied with (letters), 262, 264, 265
S-100 protein staining with
in granular cell myoblastomas, 37
in normal tissues and tumors, 341
- Immunoradiometric assays. See under Assay(s)
- Inclusion(s)
cytoplasmic, in chlamydial cervicitis diagnosis using Pap smear, 421
PAS-positive, diastase-resistant, in hepatocytes, liver disease and, 697
- Indochinese refugees, intestinal parasites among, 502

Infection(s)

See also particular pathogens
nosocomial, *Staphylococcus aureus* bacteremia, 598

Information retrieval. See Records; Reporting

Intravenous fluid(s), blood drawing site in patient receiving, 119

Iophendylate, effects on oligoclonal banding in cerebrospinal fluid, 607
Iron, deficiency, free erythrocyte protoporphyrin test in diagnosis of, 661

Islet cell(s), proliferation of, with exocrine changes in pancreas, in hypoglycemic adults, 14

Islet cell tumor, clear cell, 512

Isoantigen(s), blood group. See under Antigen(s)

Isoelectric focusing, transferrin subtyping by, in parentage testing, 725

Isoenzyme(s). See under particular enzymes

K

Keratin, demonstration of, in neoplasms, using antikeratin antibodies, 458

Kidney(s)

See also Glomerulus; Nephropathy(-ies); Pelvis, renal biopsy. See under Biopsy(-ies)

carcinoma. See Carcinoma(s), renal cell

failure, chronic, acquired renal cysts and multiple renal cell and urothelial tumors in, 238

immunofluorescence microscopy of paraffin-embedded specimens obtained by fine-needle aspiration biopsy, 489

morphologic differentiation of carcinoma from oncocytoma, 312

Kidney function test(s). See particular tests

Koilocytotic atypia, isoantigen status in, 178

L

Laboratory(-ies)

See also Proficiency testing; Quality control; Records; Reporting
capital expenditures, mathematical model for simultaneous financial evaluation of alternatives, 87

interlaboratory comparisons

data reduction technic effect on results (letters), 265, 267

HLA-DR typing, 569

use of, educational program in, for medical students, 211; (editorial), 260

Lactate dehydrogenase

isoenzyme changes during marathon training, 716

isoenzyme determinations, computer-assisted interpretive reporting system, 217

release during platelet storage, platform, circular and elliptical rotators compared, 719

Laminin, immunohistochemical demonstration of, in soft tissue tumor diagnosis, 306

Langerhans' cell(s), abnormal, marker for, in histiocytosis X, 294

Lecithin, amniotic fluid, fetal pulmonary maturity and, 52

Lecithin-sphingomyelin ratio, amniotic fluid lipid quantification compared to, for predicting respiratory distress in newborn, 52

Lectin(s)

See also particular lectins

binding of, to plasma membrane (letter), 343

Legionella pneumophila, staining method for, 377

Leukemia(s)

acute lymphoblastic

common, lymphoblastic lymphoma with phenotype of, 387
with cytoplasmic azurophilic granules, 426

acute myelomonocytic, after successful therapy for oat cell carcinoma, 122

acute nonlymphocytic, secondary contrasted with *de novo*, cytochemical and morphological study, 525

acute promyelocytic, microgranular variant, with Auer rods demonstrable only after chloroacetate esterase staining, 621

chronic lymphocytic, lytic bone lesions, hypercalcemia and monoclonal protein in, 616

chronic myelogenous, Rh mosaicism and aberrant MNSs antigen expression in, 397

hairy cell

bone marrow histology in, diagnostic and prognostic significance, 531

characterization of neoplastic cells in, 733

phenotype of hairy cells in, 431

humoral and cellular studies of eosinophils in, 301

immunologic markers in differential diagnosis of small round cell tumors from, 546

therapy-related, morphologic and cytochemical study, 525

Leukemic reticuloendotheliosis. See Leukemia(s), hairy cell

Leukocyte(s)

See also Eosinophil(s); Granulocyte(s); Lymphocyte(s); Neutrophil(s)

count, differential, in buffy-coat smears of normal volunteers, 500

polymorphonuclear. See Neutrophil(s)

skin window as monitor of functions of, in contact activation factor deficiencies, 405

Lichen planus, differentiation from lupus erythematosus, histochemical technic, 486

Ligand assay, proficiency testing results, data reduction technic effect on (letters), 265, 267

Lipid(s), vitamin E effect on, 714

Lipofuscin(s), deposition in thyroid, in minocycline therapy, 738

Lipoprotein(s), cholesterol distribution. See under Cholesterol

Liver

See also Cirrhosis

Capillaria hepatica infection of, clinicopathologic features, 127

carcinoma, hyaline globules and intracellular lumina in, 392

persistent active necrosis with absence of abnormalities in laboratory test results, 505

Liver function test(s), normal, in persistent active hepatic necrosis, 505

Lumina, intracellular, in hepatocellular carcinoma, 392

Lung(s)

calcific emboli in vasculature, in bone marrow transplant patients, 360

oat cell carcinoma, acute leukemia after successful therapy for, 122

Lupus anticoagulant, laboratory diagnosis, methods comparison, 678

Lupus erythematosus, differentiation from lichen planus, histochemical technic, 486

Lymphadenitis, toxoplasmic, cyst demonstration in lymph node in, 125

Lymphadenopathy, in homosexual men, morphologic, clinical and immunologic findings, 559

Lymphangiomatosis, factor VIII-related antigen in lymphatic endothelium in, 625

Lymph node(s)

hyperplasia, in homosexual men, clinical and immunologic correlations, 559

imprints from, cytochemistry of Reed-Sternberg cells in, 553

toxoplasma cysts in, in toxoplasmic lymphadenitis, 125

Lymphocyte(s)

B

air-dried imprint preparations of lymphoid tissue for immunohistochemical identification of, with monoclonal antibodies, 438

typing, interlaboratory reproducibility, 569

T

air-dried imprint preparations of lymphoid tissue for immunohistochemical identification of, with monoclonal antibodies, 438

- decreases, in acquired cell-mediated immunodeficiency, 247
- reversed suppressor/helper ratio, in fungal brain abscess patient, 747
- Lymphoid tissue
 - See also Lymph node(s); Spleen
 - air-dried imprint preparations from, for monoclonal antibody studies of cell surface markers, 438
- Lymphoma(s)
 - See also Hodgkin's disease
 - B-cell, cutaneous, histochemical and immunohistochemical diagnosis, 157
 - cutaneous, histochemical and immunohistochemical characteristics, correlation with clinicopathologic features, 157
 - histiocytic, cutaneous, histochemical and immunohistochemical diagnosis, 157
 - immunologic markers in differential diagnosis of small round cell tumors from, 546
 - large cell, with microvillus-like projections, ultrastructural study, 443
 - lymphoblastic, with phenotype of common acute lymphoblastic leukemia, 387
 - T-cell
 - cutaneous, histochemical and immunohistochemical diagnosis, 157
 - peripheral, clinicopathologic study, 285
- Lysosome(s), disorder of, in minocycline-induced thyroid discoloration, 738
- Lysozyme, cutaneous lymphoma classification using, 157

M

- Magnesium, serum, abnormalities in hospitalized patients, 348
- Malakoplakia, defective clearance of unusual bacteria in, 637
- Marathon training, serum enzyme changes during, 716
- Marker(s)
 - See also Surface marker(s); particular markers
 - tumor
 - keratin demonstration in epithelial tumors, using antikeratin antibodies, 458
 - S-100 protein's usefulness as, 341
- Marrow
 - biopsy. See under Biopsy(-ies)
 - transplantation
 - calcific emboli in lungs of patients, 360
 - disseminated histoplasmosis complicating, 509
- Mean corpuscular volume, osmotic errors in, on electronic particle counters (letters), 143, 755
- Mean platelet volume
 - guidelines for use needed (letter), 141
 - modal platelet volume vs. (letters), 274, 275
 - quality control of (letters), 649, 651
- Medical utility, of laboratory tests, evaluation procedure, 78
- Melanoma, aspiration biopsy cytology in diagnosis (letter), 268
- Membrane(s), plasma, concanavalin A binding to (letter), 143
- 2-Mercaptoethanol, high-resolution chromosome technique using, 481
- Merkel cell tumor(s). See Carcinoma(s), neuroendocrine
- Mesangium, "full house" immunofluorescence in, in nonsystemic mesangiopathic glomerulonephritis (letters), 273, 273
- Mesothelioma(s), extra-ovarian, amylase in, 633
- Metastasis(-es), ectopic creatine kinase MB production in, 255
- Metrizamide, effects on oligoclonal banding in cerebrospinal fluid, 607
- Microcomputer(s), capital budgeting techniques using, 87
- Microcytosis, causes of, in adults, 661
- Microfilm, automated file system using, 467
- Microhematocrit centrifugation. See under Centrifugation

- Micro-ID*, same-day Enterobacteriaceae identification with, comparative evaluation, 683
- Microscopy. See Electron microscopy; Fluorescent microscopy; Immunofluorescent microscopy
- Microspherocytosis, spuriously elevated platelet count due to (letter), 144
- Minocycline, black discoloration of thyroid with, histochemical and electron microscopic studies, 738
- Modified New York City medium, *Mycoplasma pneumoniae* growth on, 235
- Monoclonal antibodies. See under Antibody(-ies)
- Morphometry, ultrastructural, of thyroid tumors, 166
- Multiple endocrine neoplasia, radiation exposure and? (letters), 520, 520
- Multiple myeloma, graphic display of serial paraprotein concentrations in, 227
- Multiple sclerosis
 - immunonephelometric quantitation of central nervous system IgG synthesis in, diagnostic usefulness (letters), 144, 145
 - polyacrylamide gel electrophoresis for demonstration of oligoclonal bands of IgG in cerebrospinal fluid in, 112
- Mycobacterium avium-intracellulare*, disseminated infection in homosexual men with acquired cell-mediated immunodeficiency, 247
- Mycoplasma pneumoniae*, modified New York City medium for detection of, 235
- Mycosis fungoides, histochemical and immunohistochemical diagnosis, 157
- Myoblastoma(s), granular cell, S-100 protein in, 37
- Myocardial infarction
 - computer-assisted interpretive reporting of isoenzyme determinations in diagnosis of, 217
 - elevated CK-MB in absence of, due to ectopic production, 255
 - isoenzyme changes resembling, during marathon training, 716

N

- Neoplasia, multiple endocrine. See Multiple endocrine neoplasia
- Neoplasm(s). See Tumor(s); particular tumors
- Nephelometry, immune complex assay, 451
- Nephropathy(-ies)
 - cryoglobulinemic, clinicopathologic features, 147
 - IgA, "full house" immunofluorescence in (letters), 273, 273
- Nesidioblastosis, with islet-cell hyperplasia in hypoglycemic adults, 14
- Network planning, theory for laboratory research and development, 353
- Neurilemma cell(s), granular cell myoblastoma staining patterns and, 37
- Neutrophil(s)
 - peripheral blood, metabolic activity of, in alternate complement pathway, 674
 - sequence of functional differentiation of, 45
- Nevus(-i), giant pigmented, origin of placental nevus cells in patient with (letter), 141
- Nevus cell(s), placental, origin of, in patient with giant pigmented nevus (letter), 141
- N-Multistix SG reagent strips, evaluation, 722
- Normal tissues. See under Tissue(s)
- Normal values. See Reference values

O

- Oligoclonal banding, in cerebrospinal fluid
 - polyacrylamide gel electrophoresis for demonstration of, 112
 - radiocontrast dyes' effects on, 607
- Oncocytoma, renal, morphologic differentiation from renal carcinoma, 312

- Ophthalmic. See Eye(s)
 Orcein, hepatitis B surface antigen staining with, modification (letter), 648
 Osteoid osteoma
 autoimaging for nidus identification, 223
 radionuclide scanning for localization of, 223
 Ovary(-ies), tumors
 extra-ovarian tumors resembling, 633
 monoclonal antibody to common surface antigen of, 98

P

- Pancreas, endocrine tumors of, exocrine changes with, in hypoglycemic adults, 14
 Papanicolaou smear, chlamydial cervicitis detection by, 421
 Papillomavirus, human
 cervical epithelial lesions due to, interpretation (notice), 523
 isoantigen loss in cervical infection with, 178
 Paraffin-embedding, of kidney specimens obtained by fine-needle aspiration biopsy, for immunofluorescence microscopy, 489
 Paraganglioma(s), carotid body, in multiple endocrine neoplasia (letters), 520, 520
 Paraprotein(s)
 interassay variability in serial determinations, 227
 serial determinations in plasma cell dyscrasias, graphic display of results, 227
 Parasite(s), intestinal, in Indochinese refugees, 502
 Paternity testing, transferrin subtyping by isoelectric focusing, 725
 Pathology. See Education; Reporting
 Peliosis, of spleen, 708
 Pelvis, renal, adenosquamous carcinoma of, with staghorn calculi, 731
 Phage typing, *Staphylococcus aureus*, in hospital epidemiology, 598
 Phosphatidylglycerol, amniotic fluid, fetal pulmonary maturity and, 52
 Placenta
 intravascular hematopoiesis in, 225
 origin of nevus cells in, in patient with giant pigmented nevus (letter), 141
 Plasma cell(s), immunoglobulins in, Russell bodies and (letters), 262, 264, 265
 Plasma cell dyscrasia(s), graphic display of serial paraprotein concentrations in, 227
 Platelet(s)
 See also Mean platelet volume
 count
 mean platelet volume and (letter), 141
 spurious elevation due to microspherocytosis (letter), 144
 modal vs. mean volume (letters), 274, 275
 storage, *in vitro* assessment of damage from platform, circular and elliptical rotation, 719
 Platelet distribution width
 guidelines for use needed (letter), 141
 modal platelet volume and, in megaloblastic anemia (letters), 274, 275
 Platelet neutralization procedure, lupus inhibitor identification using, comparative evaluation, 678
 Polyacrylamide gel electrophoresis. See under Electrophoresis
 Polycythemia vera, erythroid colonies in peripheral blood in, 496
 Polyethylene glycol, immune complex extraction with, in nephelometric immune complex assay, 451
 Precedence diagram, in network planning, 353
 Predictive value, of immunonephelometric quantitation of central nervous system IgG synthesis in multiple sclerosis (letters), 144, 145
 Pregnancy, first-trimester, intravascular hematopoiesis in chorionic villi in, 225

- Proficiency testing
 CAP data compilation (book review), 139
 data reduction technic effect on results (letters), 265, 267
 workload as factor in laboratory performance, 609
 Profile(s), biochemical and hematologic, blood drawing sites and, in patients receiving intravenous fluids, 119
 Program Evaluation and Review Technique (PERT), network planning using, in laboratory research and development, 353
 Protein(s)
 See also particular proteins
 cobalamin-binding. See R binder
 monoclonal urinary, in chronic lymphocytic leukemia, 616
 Protoporphyrin, free erythrocyte. See Free erythrocyte protoporphyrin
 Pseudomembranous colitis, counterimmunoelectrophoresis for *Clostridium difficile* toxin detection in, 370, 375
Pseudomonas alcaligenes, fatal endocarditis due to, 245
 Pseudotumor, xanthogranulomatous, of vagina, mucoid *Escherichia coli* in, 637

Q

- Quality control
 See also Proficiency testing; Reference material(s)
 B-lymphocyte typing, interlaboratory comparison, 569
 CAP data compilation (book review), 139
 electrolyte analysis, using anion gap, 688
 mean platelet volume (letters), 649, 651

R

- Race, creatine kinase reference ranges and, 582
 Radioimmunoassay(s)
 See also particular substances
 for free thyroxine, 334
 solid-phase, antibody response monitoring with, in candidiasis, 200
 Radionuclide scanning, osteoid osteoma localization using, 223
 R binder, sources of, in plasma and secretions, 611
 Receiver operating characteristic curve(s), in laboratory test evaluation, 78
 Records
 automated microfilm system for maintaining, 467
 multifunction computer network for large pathology department, 472
 Reed-Sternberg cell(s), cytochemistry of, in lymph node imprints, 553
 Reference material(s)
 for carcinoembryonic antigen detection with commercial anti-CEA sera, 25
 for histochemical estrogen receptor assay, estrogen-primed immature rat uterus, 484
 for mean platelet volume on electronic counters (letters), 649, 651
 Reference values
 for chemistry and hematology tests in adult males, age and sample distribution and, 574
 creatinine kinase, racial and gender influences on, 582
 free erythrocyte protoporphyrin, for adults, 655
 health vs. statistical considerations in determining (editorial), 402
 Renal failure. See under Kidney(s)
 Reporting
 See also Records
 interpretive, computer-assisted, for isoenzyme determinations, 217
 Research, network planning theory for, 353
 Resident(s), additional clinical training needed? (letters), 270, 270
 Respiratory distress syndrome, amniotic fluid lecithin, phosphatidylglycerol, L/S ratio and foam stability test in prediction of, 52
 Reticuloendotheliosis, leukemic. See Leukemia(s), hairy cell

- Retroperitoneum, papillary serous carcinoma of, 633
 Rotator(s), for platelet storage, platelet damage on platform, circular and elliptical compared, 719
 Rubella, enzyme-linked immunosorbent assay for screening and quantitation of antibodies, 206
 Russell body(-ies), immunoelectron microscopic and immunoperoxidase studies (letters), 262, 264, 265

S

- Saliva, R binder in, sources of, 611
 Schwann cell. See Neurilemma cell(s)
 Screening
 See also particular conditions and tests
 biochemical, magnesium abnormalities in hospitalized patients, 348
 program evaluation (editorial), 135
 Section(s), clot, of marrow aspirate, in histoplasmosis diagnosis in marrow transplant patient, 509
 Sensitivity. See particular procedures
 Sézary's syndrome, histochemical and immunohistochemical diagnosis, 157
 SGOT. See Aspartate aminotransferase
 SGPT. See Alanine aminotransferase
 Sickle cell syndromes
 image processing analysis of red blood cell morphology in, 667
 red blood cell morphology and painful crises, 667
 Skin, primary neuroendocrine carcinomas of, clinical, histologic, and ultrastructural study, 6
 Skin window technic, leukocytic function monitoring with, in contact activation factor deficiencies, 405
 Slack, in network planning, 353
 Smear(s)
 See also Papanicolaou smear
 buffy-coat, differential count in normal volunteers, 500
 Soft tissue, tumors of, immunohistochemical demonstration of laminin in diagnosis of, 306
 Southeast Asian refugees. See Indochinese refugees
 Speciation, of alpha-hemolytic streptococci, importance in differentiating contaminants from clinically significant organisms, 195
 Specificity. See particular procedures
 Specimen(s), blood, site for drawing, in patient receiving intravenous fluids, 119
 Spectroscopy, electron spin resonance, alternate complement pathway kinetics studied with, 674
 Spleen
 lymphangiomatosis of, factor VIII-related antigen in lymphatic endothelium in, 625
 peliosis of, 708
 S-100 protein
 demonstration of, in normal tissues and tumors, immunoperoxidase technic, 341
 in granular cell myoblastomas, 37
 Stains and staining
 See also Cytochemistry
 method for *Legionella pneumophila*, 377
Staphylococcus aureus, bacteremia due to, hospital-wide outbreak, 598
 Stereology, ultrastructural, of thyroid tumors, 166
 Streptococcus(-i), alpha-hemolytic (viridans), clinical significance in cerebrospinal fluid, 195
Streptococcus equisimilis (group C), ophthalmic infections caused by, 385
 Substance P, in clear cell islet cell tumor, 512
 Surface marker(s)
 air-dried imprint preparations from lymphoid tissue for monoclonal antibody studies of, 438

- immunologic, differential diagnosis of small round cell tumors from leukemia and lymphoma using, 546
 Susceptibility testing, *Hemophilus influenzae* biotypes and, 73

T

- T₄. See Thyroxine
 T-cell lymphoma. See under Lymphoma(s)
 Terminal deoxynucleotidyl transferase
 in bone marrow cells in absence of hematologic malignancy, 277
 immunofluorescent assay (letters), 272, 272
 Test(s)
 See also particular tests and types of tests; Reporting
 evaluating clinical efficacy of, 78
 ordering and interpretation of, educational program for medical students, 211; (editorial), 260
 Thalassemia, free erythrocyte protoporphyrin test in diagnosis of, 661
 Thrombocytopenia, pulmonary histoplasmosis with, 644
 β -Thromboglobulin, release during platelet storage, platform, circular and elliptical rotators compared, 719
 Thyroid
 black discoloration of, with minocycline therapy, histochemical and electron microscopic studies, 738
 carcinoma
 medullary, flow cytometric DNA analysis of, 172
 mucus-producing medullary (letters), 521, 522
 papillary, in multiple endocrine neoplasia (letters), 520, 520
 ultrastructural morphometry of, 166
 normal, ultrastructural morphometry, 166
 ultrastructural morphometry of tumors, 166
 Thyroxine, free, radioimmunoassay for, 334
 Tissue(s)
 control. See Reference material(s)
 normal, S-100 protein demonstration in, immunoperoxidase technic, 341
 Tissue thromboplastin inhibition, lupus inhibitor identification using, comparative evaluation, 678
 T lymphocyte(s). See under Lymphocyte(s)
 α -Tocopherol. See Vitamin E
 Toxoplasmosis, cysts demonstrated in lymph node in, 125
 Transaminase(s). See Alanine aminotransferase; Aspartate aminotransferase
 Transferrin, subtyping by isoelectric focusing, in parentage testing, 725
 Transfusion(s), autologous red blood cell recovery after, simplified method, 364
 Transplantation. See under Marrow
 Triglyceride(s), vitamin E effect on, 714
 Tumor(s)
 See also particular types and sites
 endothelial, *Ulex europaeus* I lectin as marker for, 32
 neuroendocrine, neuron-specific enolase in, 703
 small round cell, immunologic markers in differential diagnosis from lymphoma and leukemia, 546
 soft tissue, immunohistochemical demonstration of laminin in, 306
 S-100 protein demonstration in, immunoperoxidase technic, 341
 thyroid, ultrastructural morphometry, 166
 Tumor-associated antigen(s). See under Antigen(s)
 Tumor marker(s). See Marker(s), tumor

U

- Ulex europaeus* I lectin, as endothelial cell marker, 32
 Ultrastructure
 See also Electron microscopy
 of *Bacteroides* capsules, 591

- of esophageal muscle in achalasia and diffuse esophageal spasm, 312
- of glomus tumor with thick (myosin) filaments, 130
- Ultraviolet light, fungal autofluorescence with, 231, 587
- Urea, blood levels, effect of, on mean corpuscular volume on electronic particle counters (letter), 143
- Urinalysis, colorimetric assay for specific gravity, evaluation, 722
- Urine specific gravity, colorimetric strip assay, evaluation, 722
- Vagina, xanthogranulomatous pseudotumor of, mucoid *Escherichia coli* in, 637

V

- Vasoactive intestinal polypeptide, in clear cell islet cell tumor, 512
- Vitamin B₁₂ (cobalamin), binding protein shifts in autoimmune agranulocytosis, 611
- Vitamin E
 - effect on cholesterol distribution in lipoproteins, 604, 714
 - effect of triglycerides, 714
- Vitek AMS®, same-day Enterobacteriaceae identification with, comparative evaluation, 683
- Vitreous aspiration. See under Biopsy(-ies), aspiration

W

- Whipple's disease, defective clearance of unusual bacteria in, 637
- Word processing. See Computer(s)
- Workload, quality of laboratory performance and, 609

X

- Xanthogranulomatous pseudotumor. See under Pseudotumor(s)
- X-ray analysis, energy dispersive, aluminum-containing dense deposits in glomerular basement membrane identified with (letter), 267

Book review, Data Recap 1970-1980 (Elevitch and Noce, eds.), 139

Inaugural address, Frank Vellios, 653

Lectures

Ward Burdick Award 1982, 1

H. P. Smith Award 1982, 405

Photographs

Osborne Brines, 3

Elmer R. Jennings, 1982 Burdick Award lecturer, 2

James W. Kernohan, 647

Philip Levine, 3

John R. Rebuck, 1982 Smith Award lecturer, 406

Frank Vellios, president, 653

In Memoriam

James W. Kernohan, 753

Allan Balch McNie, 647

John R. Schenken, 137

James T. Weston, 518

News and Notices, 275, 403, 523

Errata, 271, 763

INDEX OF AUTHORS

- Abrahams, Cyril, 360
Aisner, Joseph, 125
Aisner, Seena C., 125
Alber, Ronald L., 253
Albores-Saavedra, Jorge, 520
Alderson, Gerald L., 683
Alenghat, Elizabeth, 225
Alexander, Gary A., 683
Almazan, Rebecca, 598
Alroy, Joseph, 728
Amenta, Joseph S., 52
An, Teisa, 392
Anderson, Robert E., 518
Anderson, William F., 496
Andrade, Jose De Souza, 493
Andres, Terry L., 546
Annesley, Thomas M., 255
Apple, Fred S., 716
Armin, Alireza, 37
Arnett, Ernest N., 125
Arvan, Dean A., 758
Ash, K. Owen, 574
Athassiadis, Sophia, 272
Attah, Edward B., 127
Austin, Garth E., 227
- Bacus, James W., 667
Bambirra, Eduardo Alves, 493
Banks, Peter M., 438, 521
Bardawil, Wadi A., 414
Bardy, Gust H., 245
Barna, Barbara P., 733
Barnes, C. Allan, 312
Bartl, Reiner, 531
Bartlett, R. C., 756
Bast, Robert C., 98
Battaglia, Salvatore, 271
Baumal, Reuben, 341
Beautyman, William, 143
Beckman, Barbara S., 496
Beckman, Edwin N., 312, 496
Beckstead, Jay H., 616
Bedard, Y. C., 522
Beeler, Myrton F., 135, 763
Beeler, Myrton, 519
Beltran, German S., 496
Ben-Bassat, Mina, 147
Benisch, Barry, 243
Bergfeld, Wilma F., 486
Berkow, Roger L., 633
Berman, Leonard D., 285
Berman, Rita S., 294
Bernstein, Larry H., 270
Bessman, J. David, 275, 651
Bhan, Atul K., 294
Biesecker, James L., 673
Bills, Terry, 143
Binkley, William, 486
Blom, Jens, 262
Bodensteiner, David, 182
Bolleter, Wanda T., 519
Boner, Geoffrey, 147
Borowitz, Michael J., 387
- Boyd, James C., 211
Bracey, Arthur W., 397
Bradley, Charles A., 217
Brandt, John T., 678
Briones, A. Mark, 272
Brisbane, Jane U., 285
Brown, Peggy, 182
Brubaker, William Kent, 505
Bunning, Richard D., 277
Bruns, David E., 211
Burke, M. Desmond, 260
Burkhardt, Rolf, 531
Bush, Stephen T., 651
Butler, Debra, 426
Butler, James J., 443, 559
Bychkov, Vladimir, 414
- Caillaud, Jean-Michel, 553
Campbell, Donald J., 609
Campbell, Wallace G., Jr., 14
Cappelletti, Piero, 649
Carbone, Antonino, 553
Carleton, Richard A., 402
Carlu, Christiane, 553
Carmel, Ralph, 611
Caron, B. Lynn, 438
Cartun, Richard, 520
Cartwright, Clifton, 500
Casavant, Conrad H., 616
Casey, Bernard R., 112
Castelli, William P., 714
Catchatourian, Rosalind, 509
Catchatourian, Rose, 360
Cechner, Ronald L., 472
Cembrowski, George S., 370, 688
Check, Irene J., 227
Cheng, Lorna, 108
Chung-Park, Moonja, 238
Cibull, Michael L., 272
Clark, Stephen J., 574
Clark, Virginia A., 458
Coates, Stephen R., 206
Cobb, Camilla, 582
Coelho, Ana, 525
Cofrancesco, Elisabetta, 627
Cohen, Hilliard, 509
Coleman, F. C., 137
Coleman, Mary Sue, 272
Colvin, Robert B., 98
Connelly, Eileen M., 37
Cornbleet, Joanne, 141
Cox, Carol C., 245
Crocker, Byron P., 387
Cross, Alan S., 598
Crowley, James P., 301
- Dalton, Harry P., 195
Danos, Leigh M., 421
Davies, Sally N., 114
Davis, Richard B., 644
de Villiers, Louis S., 604
De Oliveira, Celso Affonso, 493
- DeFurio, Cathy M., 725
DeGirolami, Paola C., 502
DeWandler, Marcia, 758
Denys, Gerald A., 379
Deodhar, Sharad D., 733
Di Sant'Agnes, P. Anthony, 130
Doetsch, Karl, 761
Donnelly, William H., 141
Dorman, Sandy A., 235, 421
Dreiling, Bernard J., 500
Duncan, Cecil S. R., 87
Dykes, Dale D., 725
Dzik, Walter H., 274
- Eckman, Mark R., 253
Edelman, Bennett B., 621
Eichner, Edward R., 122
Ekblom, Peter, 306
El-Shatory, Mohamed D., 607
Endoh, Masayuki, 273
Esterly, John R., 225
- Farrell, E. Christis, 265
Fenu, Maria Paola, 627
Fernandes, Bernard J., 522
Fine, Jonathan, 714
Finseth, Inga, 166
Fisher, James W., 496
Fleuren, Gert-Jan, 25
Fligiel, Suzanne, 108, 247
Foidart, Jean-Michel, 306
Ford, Henry C., 112
Forney, J. Peter, 637
Forouhar, F., 271
Frable, William J., 382
Fraser, Callum G., 759
Fraser, Martin D., 760
Freedman, Steven, 294
Friesen, Dianne L., 319
Frisch, Bertha, 531
Fromm, David, 505
Frush, Harold W., 265
Fudeman, Hyman, 274
- Gale, Peter F., 177
Galen, R. F., 756
Gallagher, John C., 522
Gandara, David R., 616
Gang, David L., 728
Gavris, Virginia, 728
Gelfand, Jeffrey A., 65
Gellis, Stephen E., 294
George, Christopher B., 616
Gera, Subhash C., 127
Ghatak, Nita, 392
Ghelman, Bernard, 223
Gilmer, P. Ridgeway, Jr., 275, 651
Glasser, Lewis, 45
Gochman, Nathan, 114
Godolphin, William, 145
- Goellner, John R., 6, 421
Goldman, Janice, 451
Goldschmidt, Volker G., 253
Golomb, Harvey M., 525
Goren, Hershel, 145
Graham, Anna R., 231
Granato, Paul A., 73
Gransar, Ali, 733
Greenberg, Theodore, 582
Griffin, Marian, 569
Grossman, Neil J., 621
Gruhn, John, 625
Guarda, Luis A., 512, 559
Gupta, Manjula K., 334
Gutman, Steven, 274
- Hamilton, John D., 747
Hanna, Wedad, 319
Hannah, James B., 108
Hardt, Nancy S., 141
Harris, Nick S., 607
Harrist, Terence J., 294
Hawiger, Alexandra, 65
Hawley, Dean A., 673
Haywood, L. Julian, 582
Hazaz, Bilha, 147
Henderson, Robert D., 319
Hennekens, Charles H., 714
Hersh, Evan M., 559
Hill, Wolfgang, 531
Hinchey, William W., 14
Hochman, Bernardo, 147
Hoffman, George C., 144, 268
Holaday, William J., 270
Holt, Jeffrey T., 758
Holthofer, Harry, 32
Howat, Alec J., 731
Hsu, Su-Ming, 265
Hunter, Elizabeth, 574
Hunter, Robert L., 227
Huvs, Andrew G., 630
- Ibanez, Michael L., 512
Ingram, Peter, 267
- Janckila, Anthony J., 431
Jennings, Elmer R., 1
Jensen, Karen L. De Mesy, 130
Jetha, Nazma, 145
Johannessen, Jan V., 166, 172
Johnson, James E., 683
Joiner, Keith A., 65
Jorgensen, James H., 683
Joyce, Jeffrey T., 119
Jurek, Elizabeth A., 73
- Kabawat, Salim E., 98
Kaczor, Daniel, 678
Kadin, Marshall E., 546
Kahana, Malka, 147
Kahn, Harriette J., 341
Kalmin, Norman D., 719

- Kaneshige, Hideaki, 273
 Kao, Yuan S., 481
 Kastner, Richard, 392
 Kay, Saul, 392
 Kedia, Kailash, 238
 Kendall, Robert I., 217
 Keppen, Michael D., 122
 Kimball, Judith L., 370
 Kimber, Judith, 502
 Kirschbaum, Barry B., 722
 Kishimoto, Hidemasa, 708
 Klienhaus, Frederick W., 673
 Klierer, Karl E., 247
 Knapp, Robert C., 98
 Koenig, Harold M., 655, 661
 Kosciol, Catherine, 520
 Kost, Gerald J., 353
 Kovacs, Kalman, 703
 Krishnan, Jayashree, 157
 Kucera, John C., 644
 Kurtycz, Daniel F. I., 688
 Kurzynski, Terrence A., 370
 Kwon-Chung, K. J., 747
- Laasonen, Antero, 489
 Lane, Joseph M., 630
 Lankerani, Mohammed, 238
 Larraza-Hernandez, Oscar, 520
 Larson, Donald M., 253
 Lebel, Diane M., 247
 Lee, Elaine, 481
 Lee, Hyung Mo, 392
 Lee, Rita, 112
 Lee, Sin Hang, 146, 484
 Lehmann, H. Peter, 761
 Lehto, Veli-Pekka, 32
 Leighton, Peter M., 367
 Lendrum, A. C., 763
 Levine, Richard M., 397
 Levinson, Stanley S., 451
 Lewin, Klaus J., 108
 Li, Chin-Yang, 157, 521
 Liles, Bobbie A., 719
 Lim, W. Chew, 112
 Lima, Geraldo Ferreira, 493
 Lindmo, Tore, 172
 Lippi, Ugo, 649
 Little, Jean A., 367
 Lucas, Fred V., 144, 268
- Mackay, Bruce, 443, 512
 Mackie, D. Bonar, 731
 Madsen, Randall D., 206
 Magil, Alex, 273
 Malkasian, George D., 421
 Mambo, Nobby C., 178
 Mandler, Raul, 145
 Mann, Jordan L., 587
 Mansell, Peter, 559
 Marion, Janet, 186
 Marks, Alexander, 341
 Marquet, Eugene, 243
 Marsh, William L., Jr., 655, 661
 Mauch, Harald, 200
- McDaniel, Kathleen M., 458
 McGinniss, Mary H., 397
 McGue, Matt K., 716
 McKenna, Barbara J., 255
 McKenna, Robert W., 277
 McMahon, James T., 733
 Melvin, Susan, 426
 Mepharm, Brian L., 264
 Metzgar, Richard S., 387
 Micheau, Christian, 553
 Miettinen, Aaro, 32
 Miettinen, Markku, 32, 306
 Mihm, Martin C., Jr., 294
 Miller, Douglas C., 728
 Miura, Masahiko, 273
 Monif, Gilles, R. G., 141
 Moravec, Clayton, 125
 Moreira, Edivaldo Fraga, 493
 Morgan, Timothy W., 438
 Morley, Debra J., 633
 Muehleck, Stephen D., 277
 Murphy, George F., 294
 Murray, J. Lee, 122
 Mustonen, Jukka, 489
 Myers, Thomas J., 301
- Nachamkin, Irving, 195
 Nagarajan, Srikantha, 127
 Nagle, Ray B., 458
 Nap, Marius, 15
 Neiman, Richard S., 285
 Nelson, Dennis P., 655, 661
 Newell, Guy R., 559
 Newman, Mark A., 379
 Newman, Richard, 243
 Ng, Ambrose, 385
 Noller, Kenneth L., 421
 Nomoto, Yasuo, 273
- O'Dowd, Gerard J., 382
 O'Kell, Richard T., 119
 Obineche, Enyioma, N., 127
 Ordonez, Nelson G., 443, 512
 Osborne, Barbara M., 443
- Parkhurst, Edward C., 728
 Parl, Fritz F., 217
 Pasternack, Amos, 489
 Pastuszak, William T., 520
 Payne, Claire M., 458, 591
 Paxson, Rosemary, 683
 Pegg, P. John, 267
 Peiper, Stephen, 426
 Peison, Bernard, 243
 Perfect, John R., 747
 Peters, Robert L., 326
 Picaso, Lisa G., 105
 Pick, Albert I., 147
 Pilstrom, Lars, 166
 Pinkerton, J. Robert, 731
 Pitha, Jan V., 122
 Plapp, Fred, 182
 Pogliani, Enrico M., 627
- Polesky, Herbert F., 725
 Priest, Jean H., 186
 Priest, Robert E., 186
- Qizilbash, Ali, 697
 Quinlan, Lockland, 385
- Ramaswamy, Gita, 385
 Rantala, Immo, 489
 Rebuck, John W., 405
 Redmond, John, III, 616
 Reid, John D., 738
 Reid, Marion E., 364
 Renner, Edward D., 377
 Renoe, Brian W., 211
 Reuben, James, 559
 Ricanati, Edmond, 238
 Richardson, L. Douglas, 217
 Rippe, Delfin F., 206
 Rivers, Ronald L., 755
 Robertson, E. Arthur, 78
 Rose, Virgil L., 122
 Rosenfeld, Joseph, 147
 Rosenheim, Sidney H., 467
 Ross, John W., 760, 761
 Roth, Lawrence M., 633
 Rothman, Michael, 414
 Roup, Brenda, 598
 Rowden, Geoffrey, 37
 Rowley, Janet, 525
 Rude, Robert K., 348
 Ryan, Kenneth J., 591
- Sakai, Hideto, 273
 Salazar, Roberto, 334
 Salvatore, Marco, 627
 Sanchez, Nestor P., 6
 Sandberg, Lawrence B., 574
 Sands, Michael, 375
 Sanfilippo, Fred, 267
 Sappenfield, Robert W., 135
 Sato, Syozo, 294
 Savage, Richard A., 144, 268, 733
 Savory, John, 211
 Sayre, George P., 753
 Schaeffer, Janis, 678
 Scheithauer, Bernd W., 6, 703
 Schneiderman, Henry, 625
 Scholes, John V., 520
 Schroeder, Arnold L., 6
 Schroff, Robert W., 247
 Schumacher, O. Peter, 334
 Scott, Elizabeth, 731
 Seaworth, Barbara J., 747
 Senba, Masachika, 648
 Serfontein, Willem J., 604
 Shaw, S. T., Jr., 348, 582
 Sheibani, Khalil, 733
 Shelburne, John, 267
 Shugar, Gary, 144
 Silva, Elvio G., 512
 Silva, Fred G., 637
 Silverberg, Steven G., 105
- Silverman, Jeffrey A., 52
 Singer, Frederick R., 348
 Singh, Gurmukh, 569
 Skikne, Barry, 182
 Smith, Thomas F., 235, 421
 Sobel, Harold J., 243
 Sobrinho-Simoes, Manuel, 166, 172
 Sohn, Carl C., 247
 Sommerfeld, Wiltrud, 531
 Sommers, Herbert M., 375
 Speers, Wendell C., 105
 Stampfer, Meir J., 714
 Standard, Paul G., 379
 Starsnic, Janice, 486
 Stass, Sanford, 426
 Stein, Preston, 426
 Steinberg, Martin H., 500
 Stelzer, Gregory T., 431
 Stites, Daniel P., 616
 Strand, Calvin L., 652
 Strate, Susan M., 637
 Strohm, Henry, 591
 Su, W. P. Daniel, 157
 Suga, Takao, 273
 Sund, Malte, 531
 Swan, Judith C., 598
- Tada, Toyohiro, 708
 Tangen, Kjell O., 172
 Taylor, James O., 714
 Taylor, Wayne E., 637
 Tcherkoff, Victor, 385
 Teetson, Winfred, 500
 Ten Hoor, Klaske A., 25
 Thom, Heather, 341
 Thomas, J. R., III, 6
 Tomino, Yasuhiko, 273
 Toy, Pearl T. C. Y., 364
 Triplett, Douglas A., 678
 Tseng, C. Howard, 377
- Ubbink, Johan B., 604
 Ucci, Angelo A., 728
 Uchida, Toshikazu, 326
 Ulbright, Thomas M., 633
 Ulinski, Donald E., 217
 Umehara, Mary K., 582
- Valenstein, Paul, 245
 Valenzuela, Rafael, 145, 486, 733
 Van Lis, Jacobus, M. J., 143
 Van Steirteghem, Andre C., 78
 Vardiman, James W., 525
 Vellios, Frank, 653
 Vigorita, Vincent J., 223
 Virtanen, Ismo, 32
 Volz, Jean H., 467
- Wakabayashi, Takashi, 708
 Wallace, John H., 431

- Walsh, Thomas J., 509
Warner, Thomas F. C. S., 520, 521
Watson, Kenneth R., 119
Wecksler, Wayne R., 607
Weidenheim, Karen M., 14
Weiner, Leonard B., 73
Welch, William R., 98
West, Reardon, 630
Wester, Susan M., 521
Wesigard, James O., 688
Wesierman, Maxwell P., 667
Whang-Peng, Jacqueline, 397, 481
Whitlow, Karen J., 609
Whitsett, Carolyn F., 186
Wick, Mark R., 6, 703
Wiik, Allan, 262
Willet, Walter, 714
Williams, Dorothy, 426
Williams, L. J., 651
Williams, Larry L., 275
Wills, Michael R., 211
Wilson, Debbie J., 235, 421
Wilson, M. Jane, 719
Winkelman, James W., 505
Winter, William, 141
Witheiler, Alan P., 206
Wolff, Gary A., 582
Wong, Edward T., 348, 582
Woodward, Stephen C., 574
Wright, Dennis H., 264
Yam, Lung T., 431
Young-Pong, Oliver, 697
Yungbluth, Margaret, 375
Zierdt, Charles H., 598
Zwadyk, Peter, 245
Zweig, Mark H., 78